

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5432 - L2 Version 002
Chandra X-Ray Center

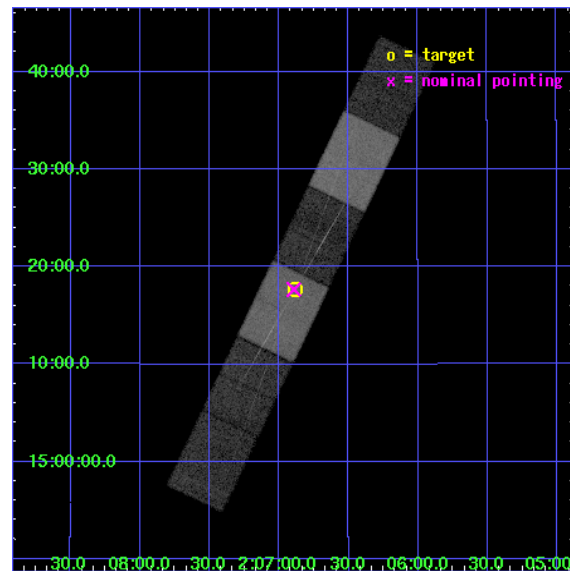
L2 Processing Date : Mar 31 2006

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1 Front

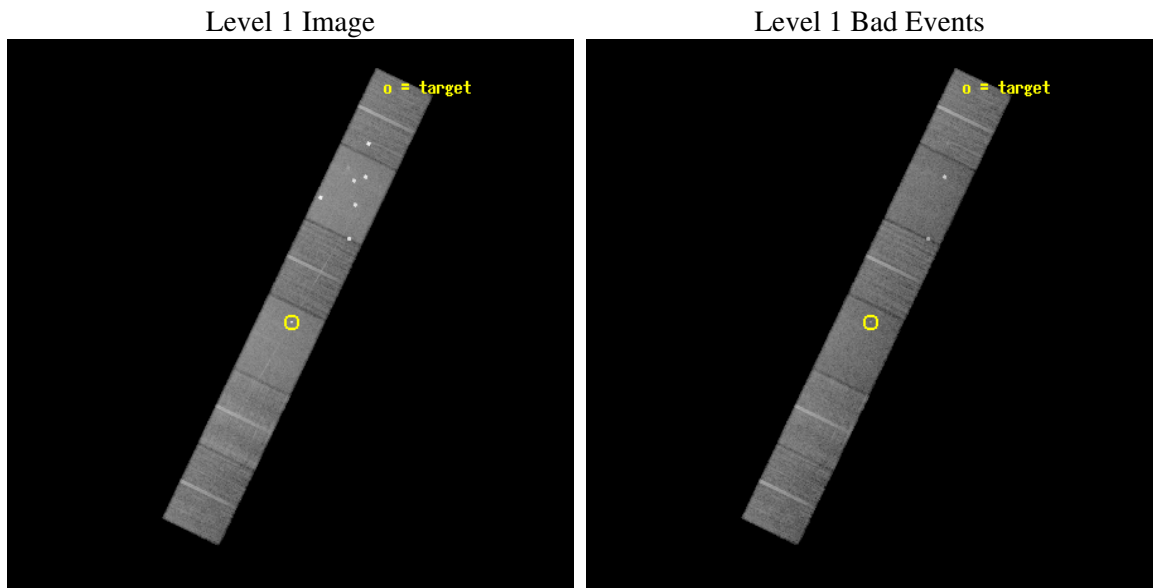
seq_num	300148
obs_id	5432
title	Chandra HETG Spectroscopy of the VY Sculptoris Star TT Ari
observer	Dr. Christopher Mauche
object	TT Ari
dtcycle	0
cycle	P
ra_targ	31.72125
dec_targ	15.295278
ra_nom	31.72345723601
dec_nom	15.294634924521
roll_nom	115.65603943234
revision	2
ontime	24212.335979313
livetime	23821.285752401
ontime4	24214.876999438
ontime5	24217.417979687
ontime6	24214.87697953
ontime7	24212.335979313
ontime8	24212.335989237
ontime9	24219.958999783
l2events	224021



2 OBI

2.1 OBI

2.1.1 Images

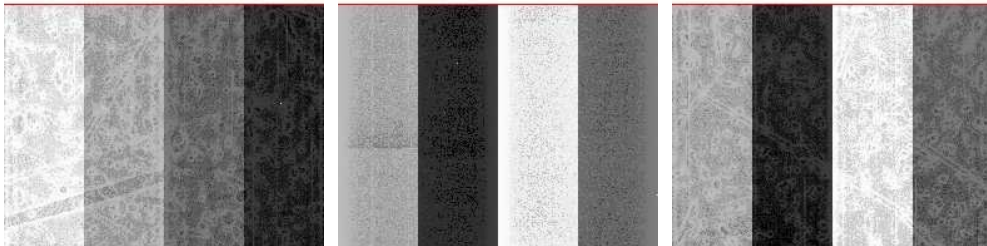


2.1.2 Bias

Chip 4

Chip 5

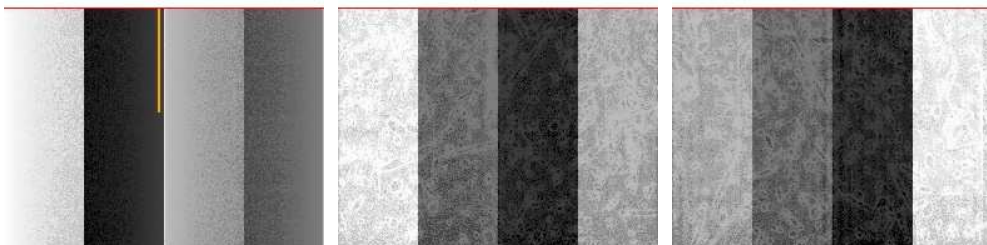
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-31T16:53:53
revision	2

sched_exp_time	24100.000000
ontime	24802.868171543
ontime4	24805.409191668
ontime5	24807.950181812
ontime6	24805.40917176
ontime7	24802.868171543
ontime8	24802.868181467
ontime9	24810.491192013
l1events	1070089

2.1.4 Events

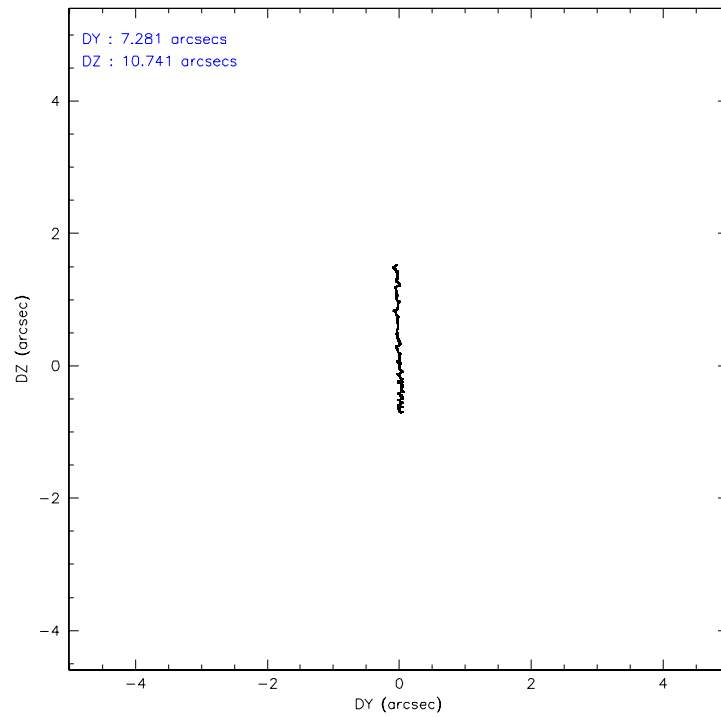
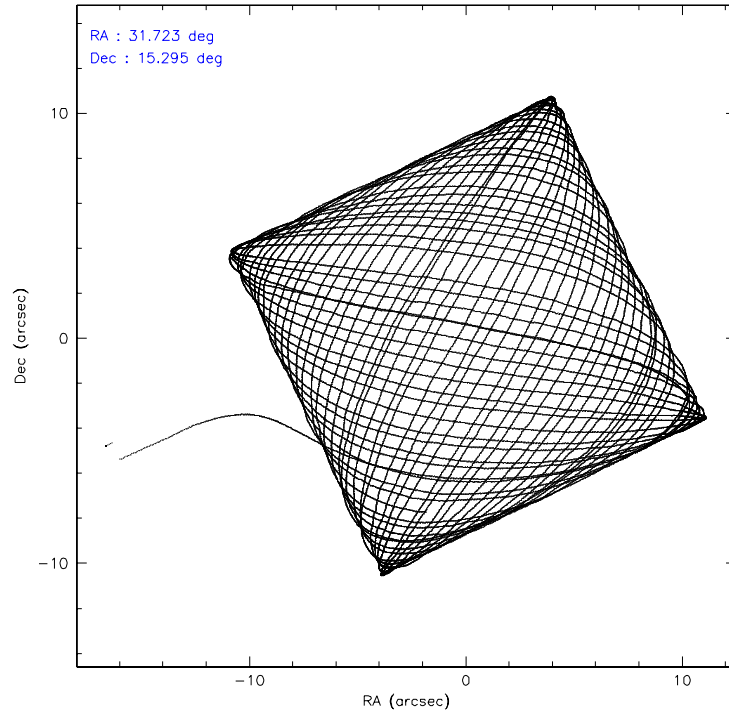
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	164889	239924	144180	197102	185894	138100
rejected events	138429	124535	126048	120145	145371	120982
rejected %	83%	51%	87%	60%	78%	87%

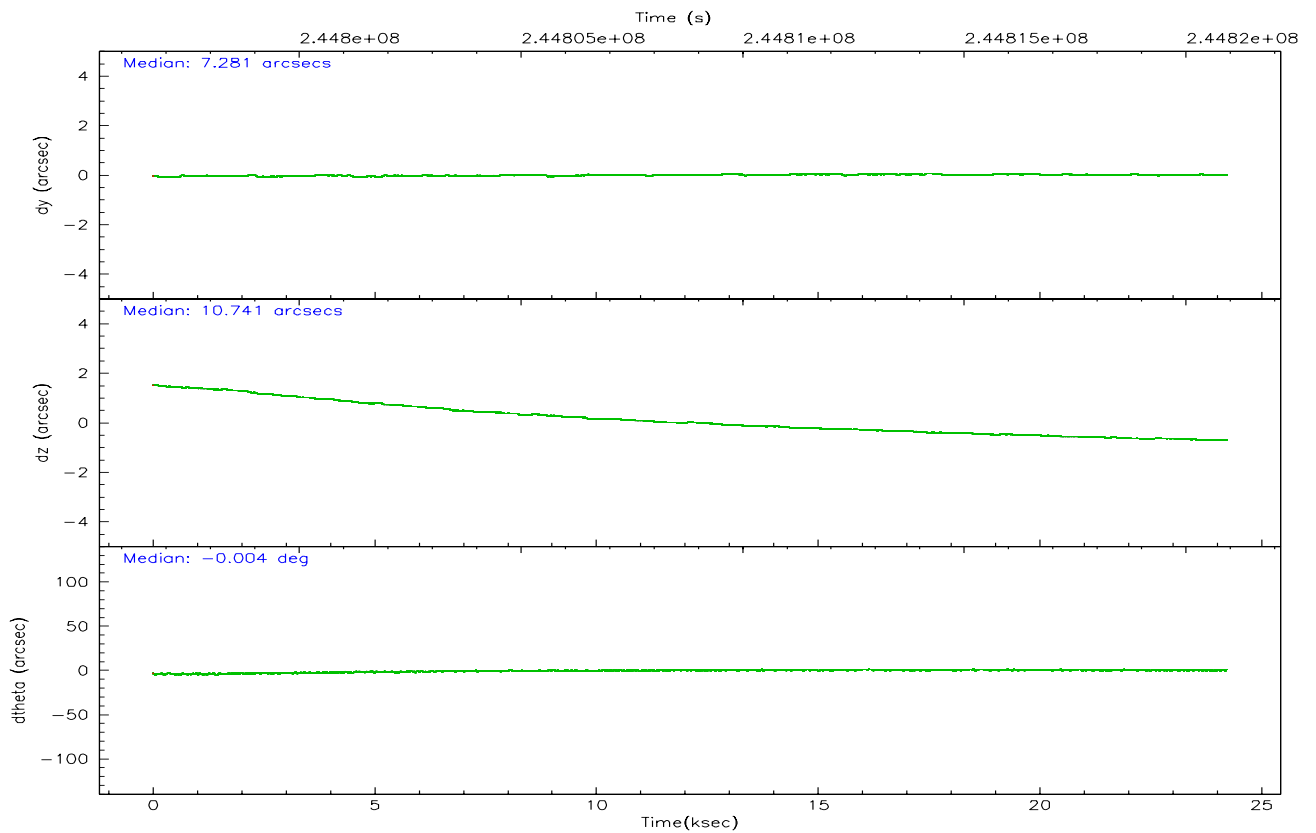
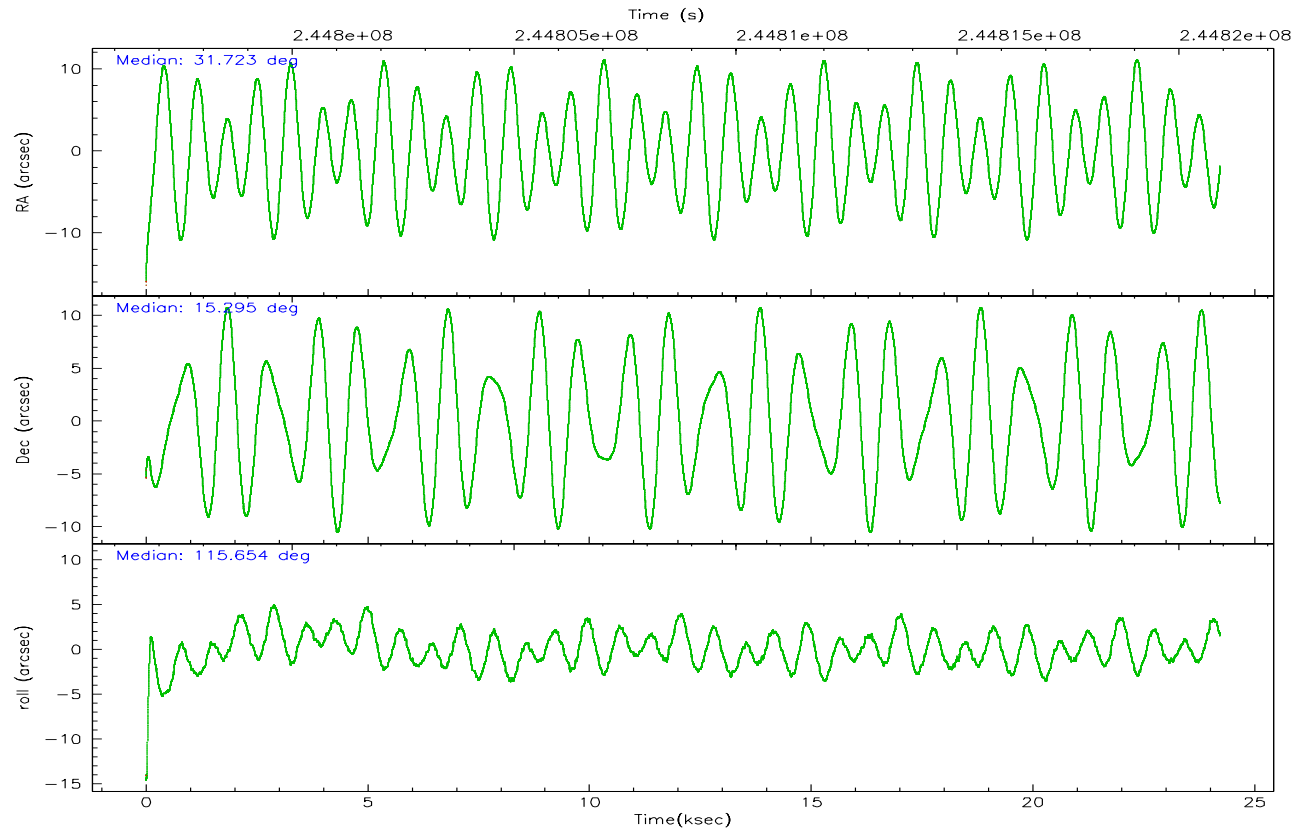
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	16427	25402	7742	5010	12959	7209
	9%	10%	5%	2%	6%	5%
grade 1 events	143	628	49	131	104	83
	0%	0%	0%	0%	0%	0%
grade 2 events	3877	31326	3723	19239	9025	3449
	2%	13%	2%	9%	4%	2%
grade 3 events	1965	3766	1839	4757	4501	1814
	1%	1%	1%	2%	2%	1%
grade 4 events	1817	2865	1787	4677	4137	1766
	1%	1%	1%	2%	2%	1%
grade 5 events	6104	13427	6531	14070	8518	6911
	3%	5%	4%	7%	4%	5%
grade 6 events	2909	54371	3454	45107	10779	3302
	1%	22%	2%	22%	5%	2%
grade 7 events	131647	108139	119055	104111	135871	113566
	79%	45%	82%	52%	73%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	31.746992	31.72345723601042	Subarray start row	1	1
Pointing Dec	15.279613	15.29463492452116	Subarray row count	774	774
Pointing Roll	115.493208	115.6560394323382	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	244796830.184000	244795539.31204			
Observation start date	2005-10-04T07:06:06	2005-10-04T06:45:39			
Observation end time	244820930.184000	244821766.50074			
Observation end date	2005-10-04T13:47:46	2005-10-04T14:02:46			
Read mode	TIMED	TIMED			

2.3 Aspect



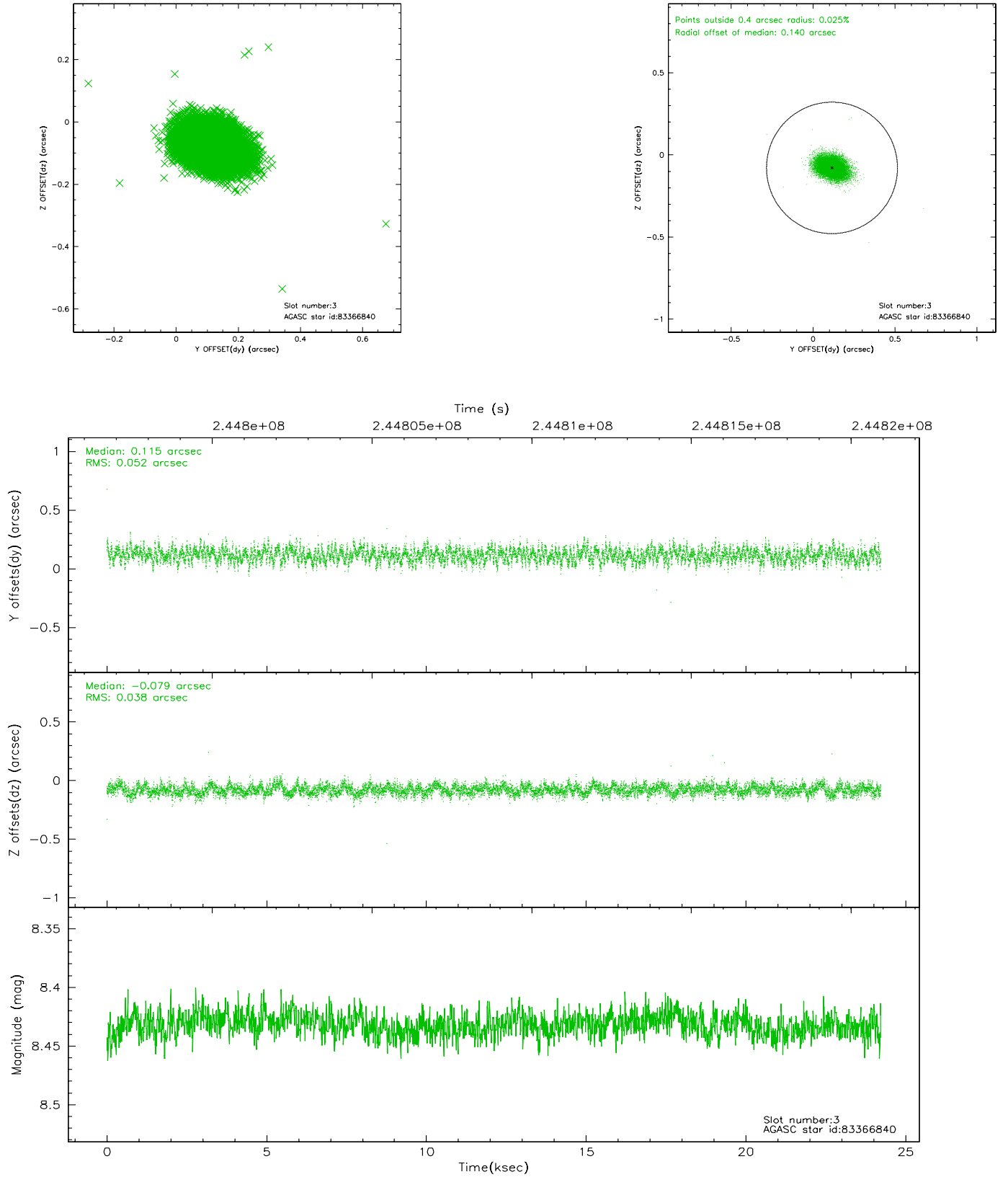


Slot Statistics

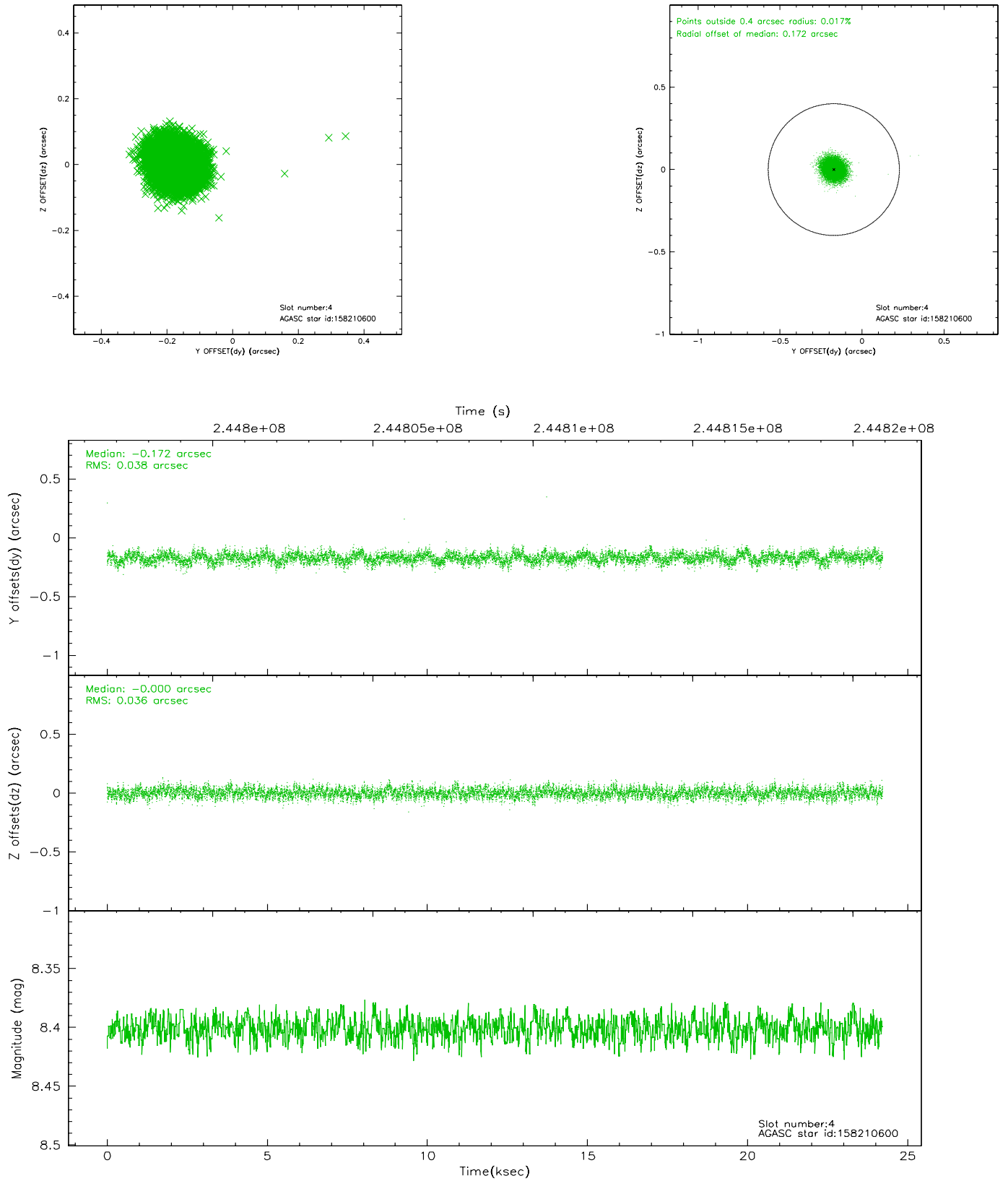
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	5908	-0.044	-0.074	0.011	0.025	0.000000	0.000000	-759.88	-1794.31
1	FID	ACIS-S-4	7.19	5907	0.068	0.041	0.006	0.012	0.000000	0.000000	2153.46	114.13
2	FID	ACIS-S-5	7.23	5908	-0.055	0.042	0.010	0.023	0.000000	0.000000	-1812.56	107.96
3	GUIDE	83366840	8.43	11813	0.115	-0.079	0.068	0.111	31.673303	14.583774	-2150.45	1309.84
4	GUIDE	158210600	8.40	11814	-0.172	-0.000	0.056	0.089	31.131603	15.630068	2059.54	1381.64
5	GUIDE	158211640	9.28	11811	0.068	-0.009	0.081	0.134	31.349537	15.537415	1432.45	844.38
6	GUIDE	158215416	9.23	11810	-0.039	-0.045	0.099	0.155	31.249092	15.295299	797.05	1535.49
7	GUIDE	159131712	7.91	11814	0.028	0.135	0.064	0.103	32.565244	15.023039	-2053.26	-2172.77

2.4 Star Slots

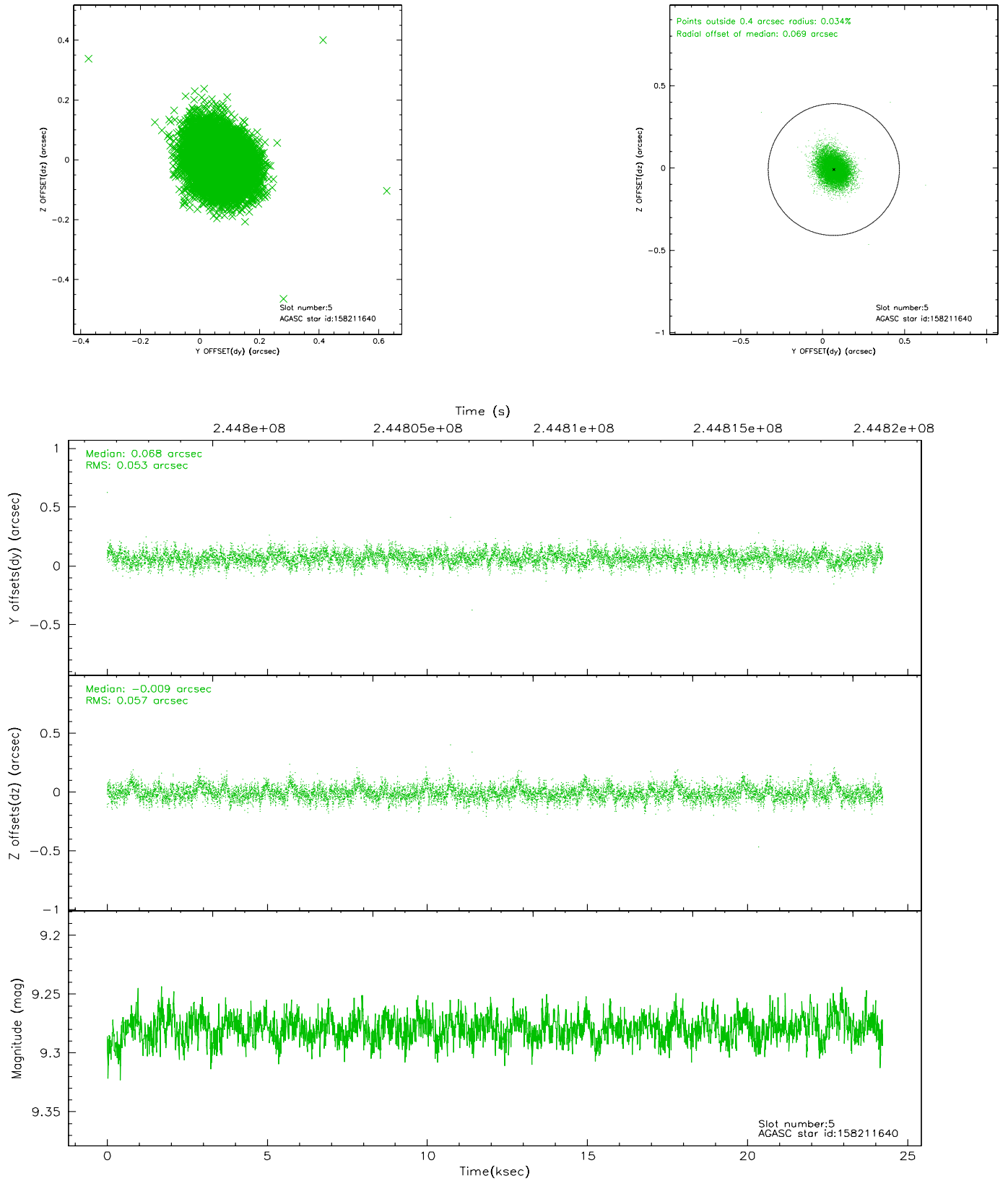
2.4.1 Slot 3



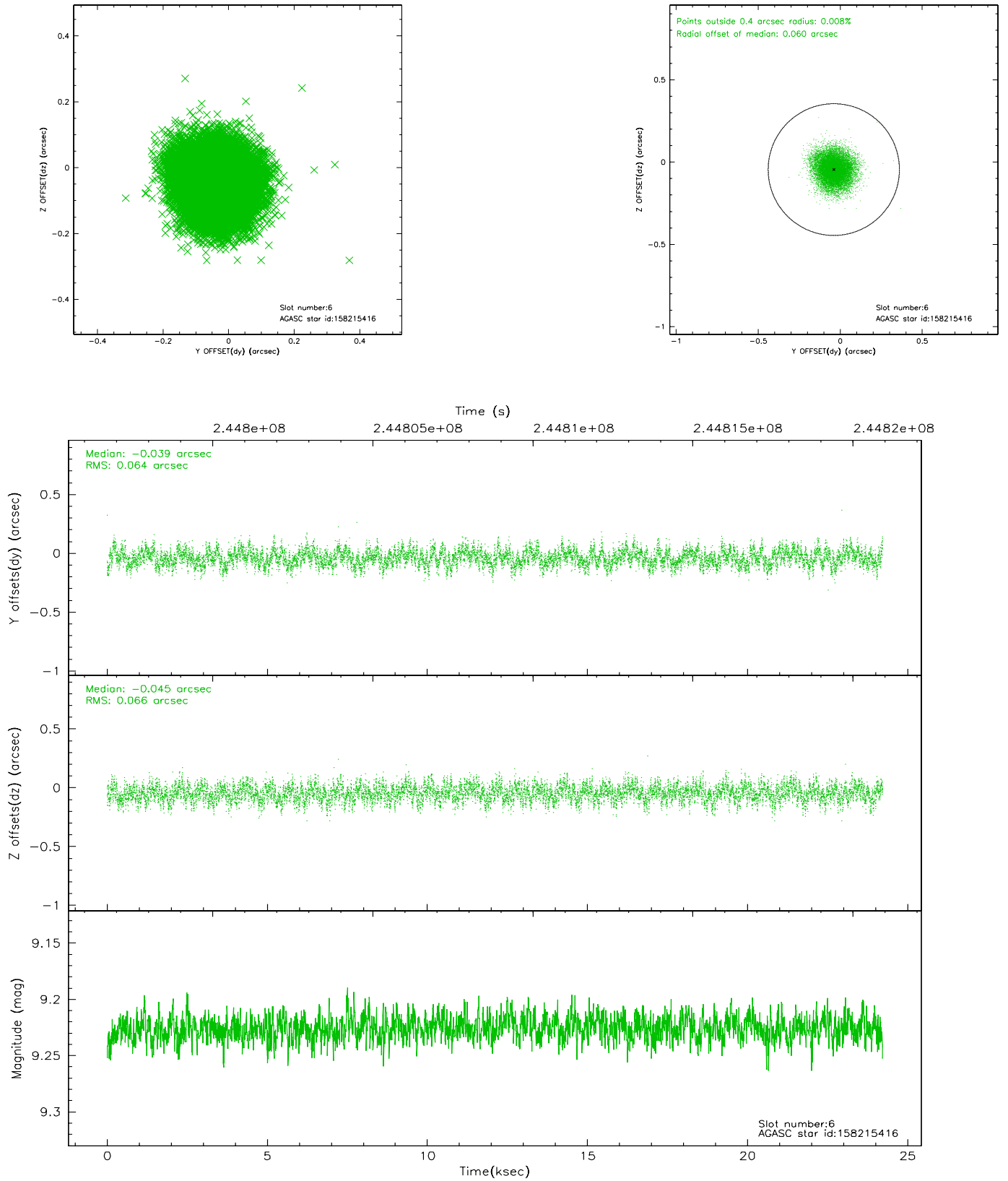
2.4.2 Slot 4



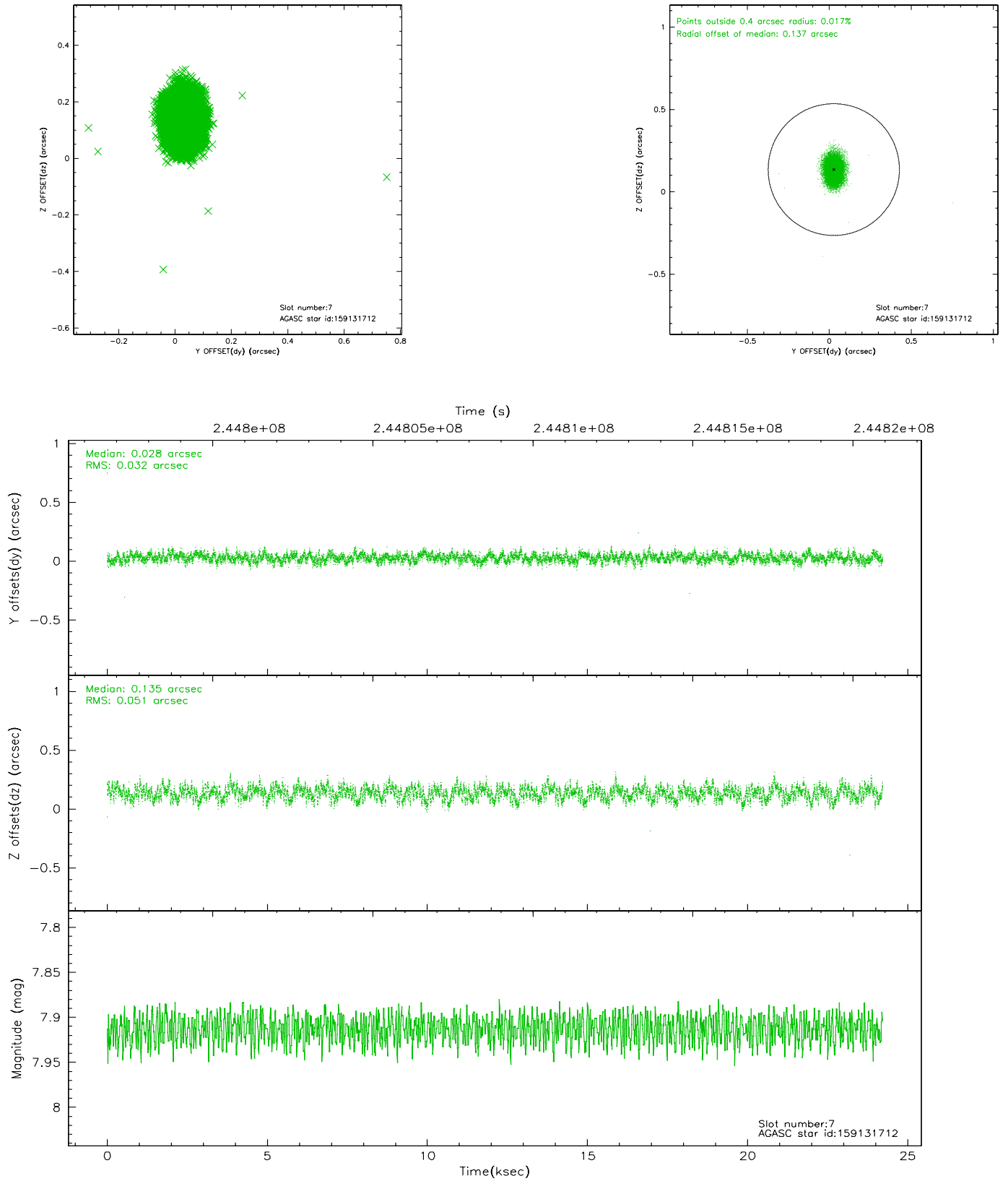
2.4.3 Slot 5



2.4.4 Slot 6

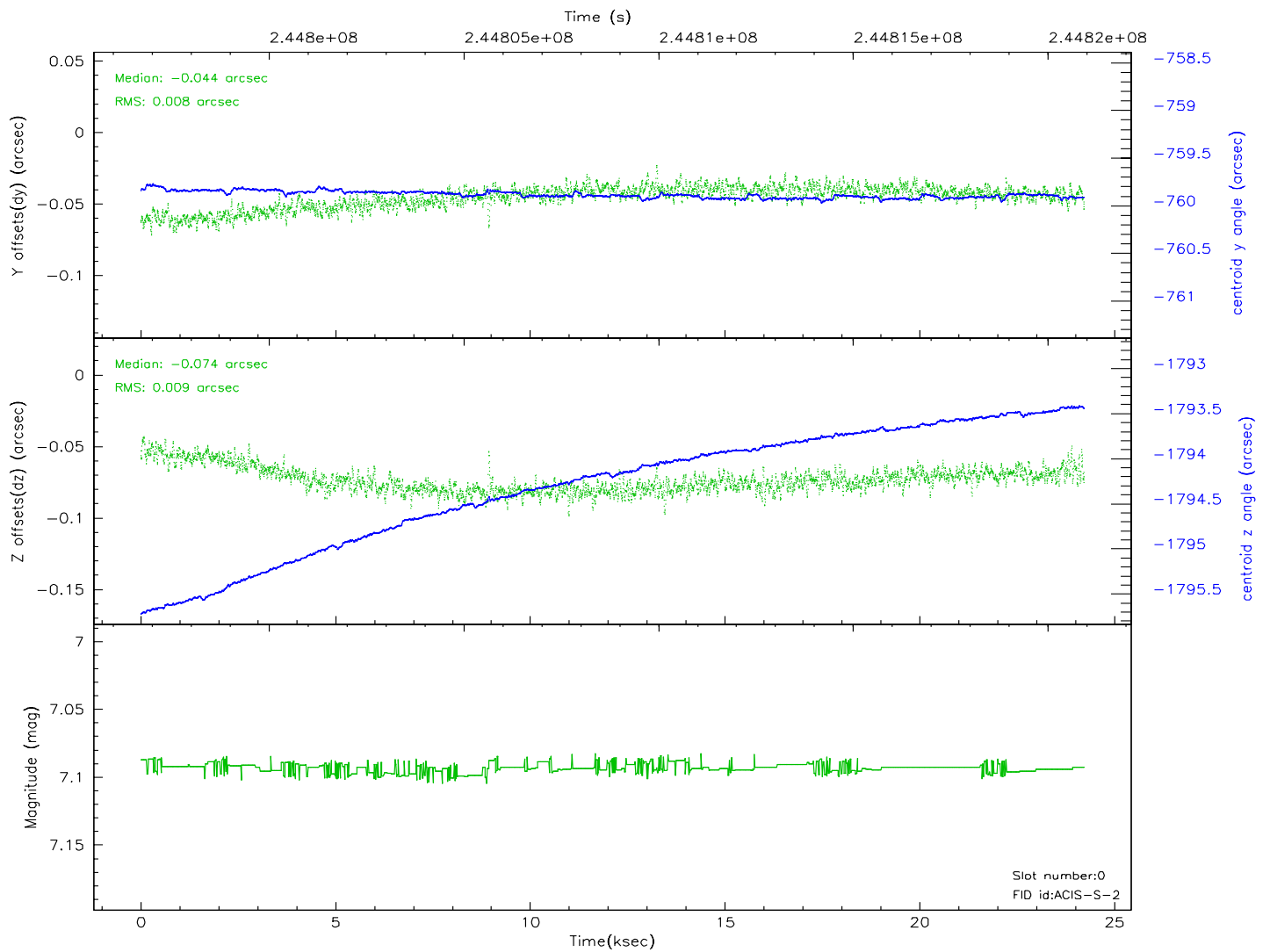
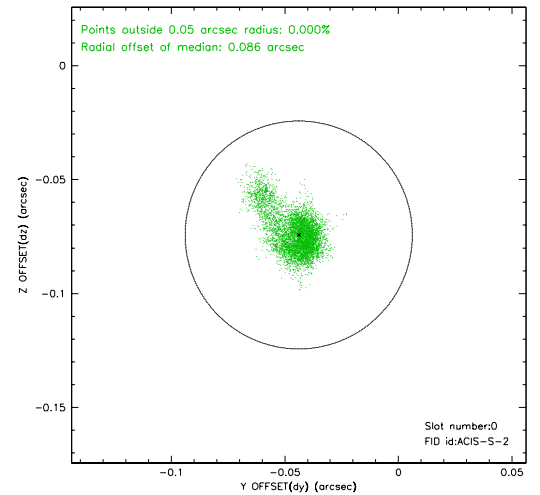
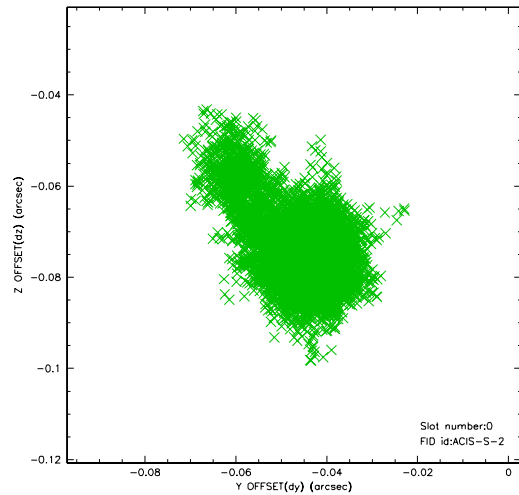


2.4.5 Slot 7

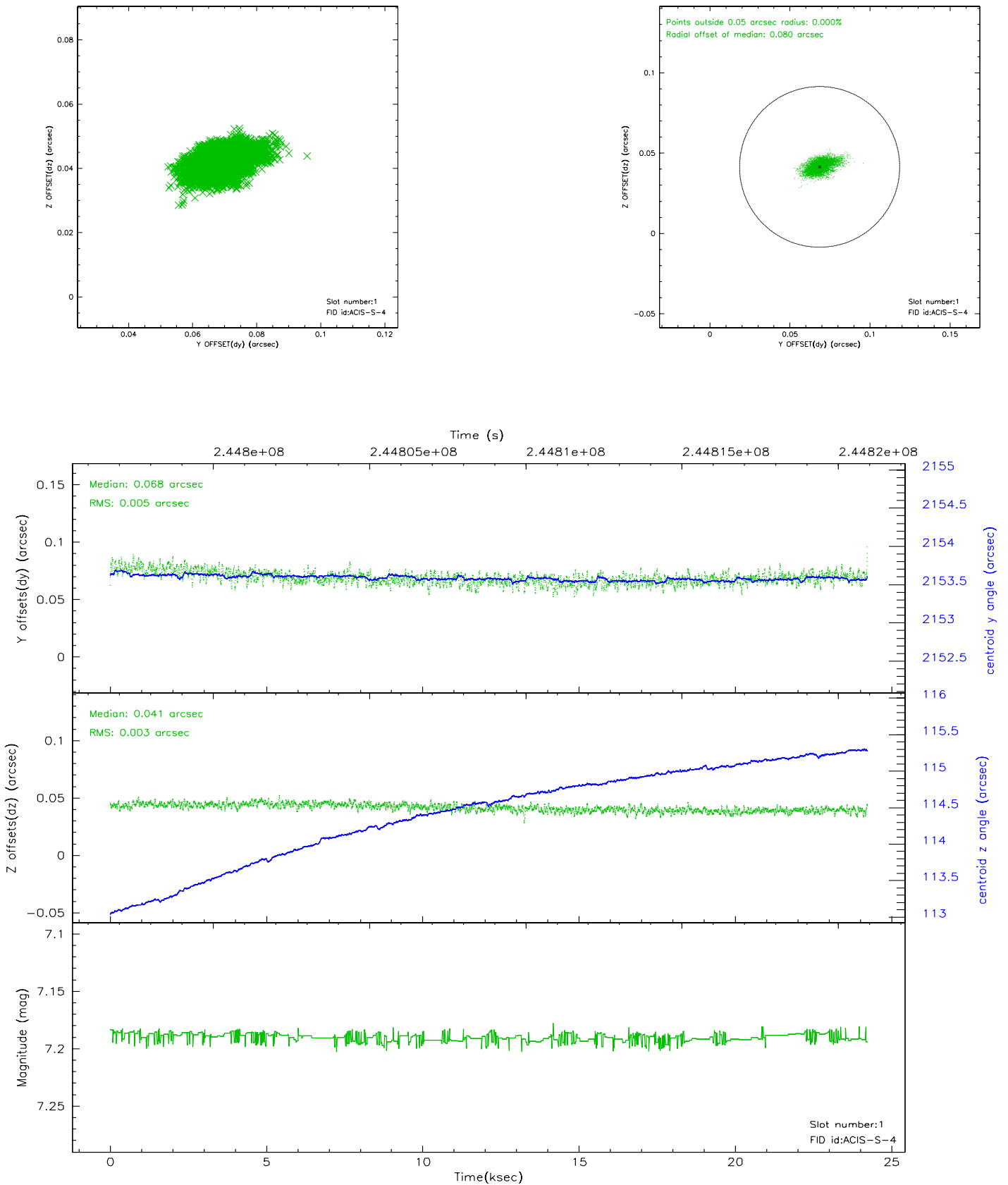


2.5 FID Slots

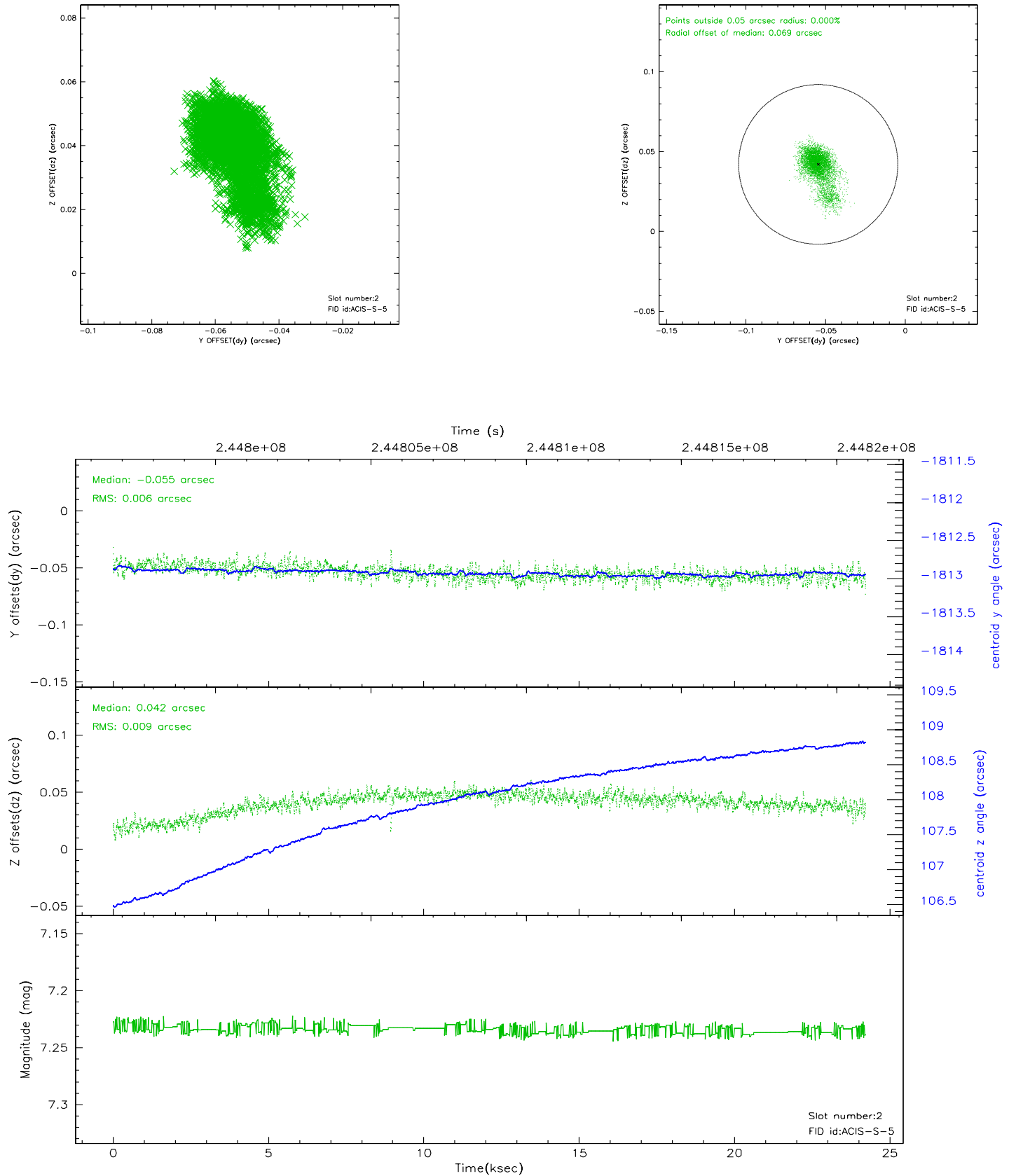
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

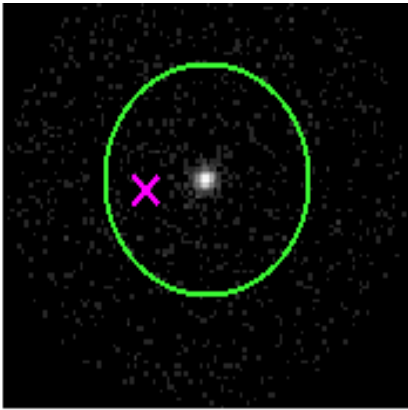


3 Gratings

3.1 HEG Arm



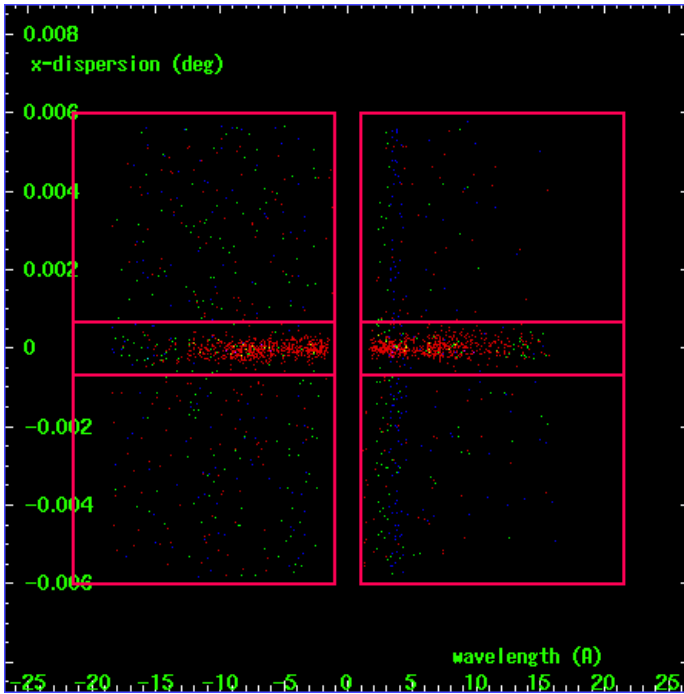
HEG Order Sort 123



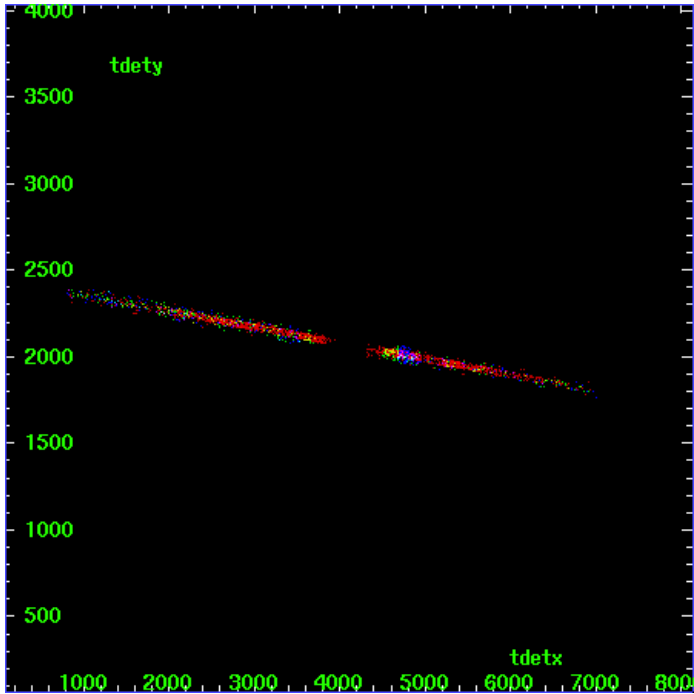
HEG Zero Order



HEG Order Sort ALL

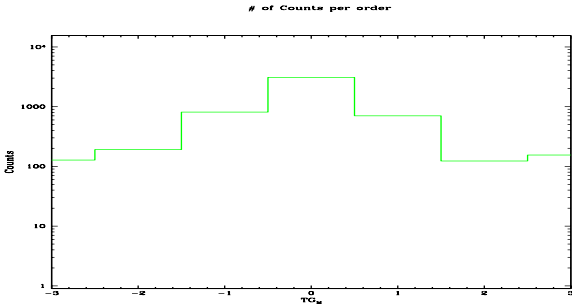


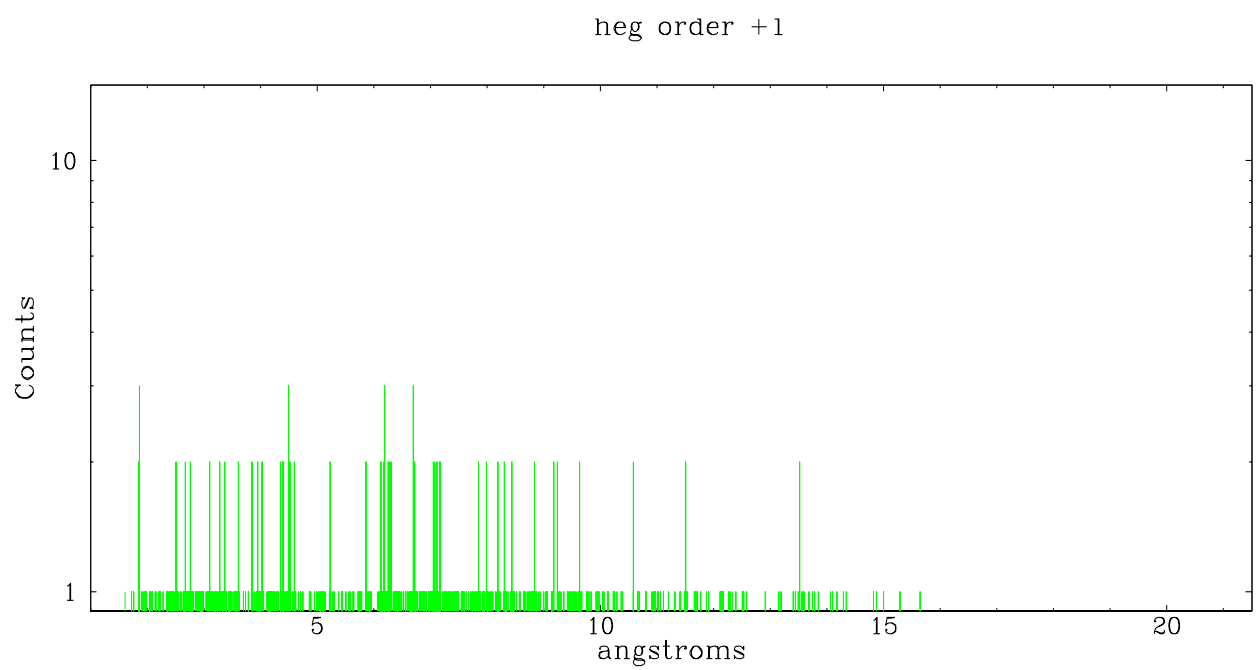
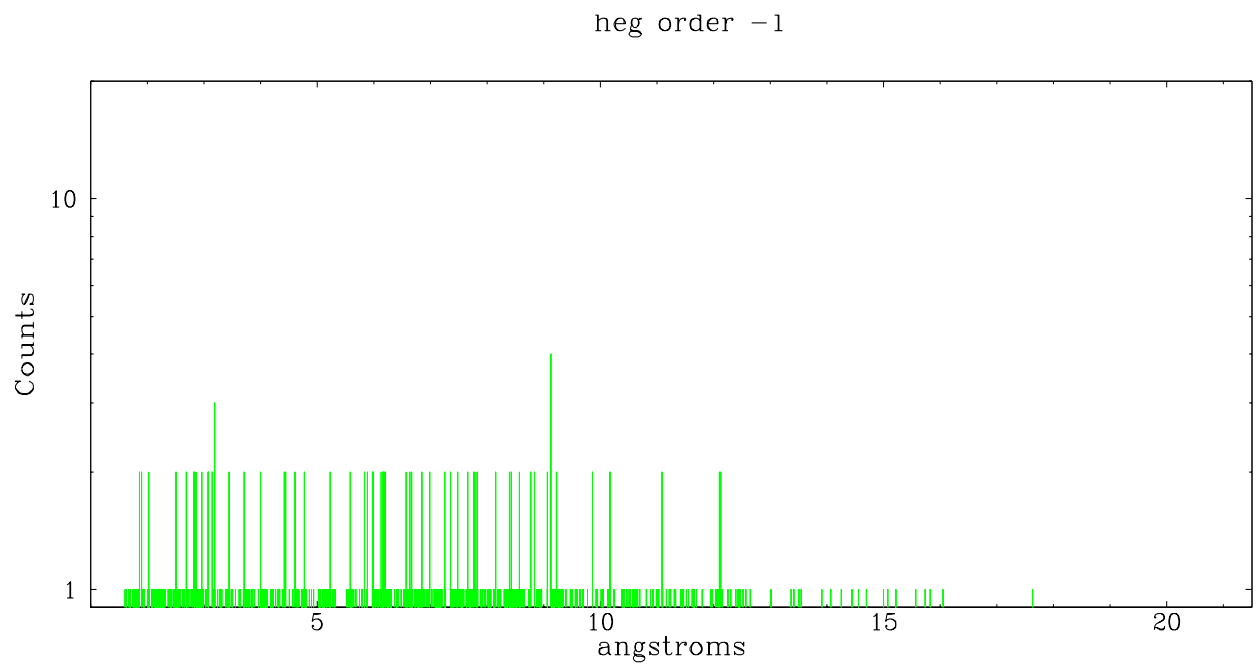
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	128	191	813	3083	703	123	155

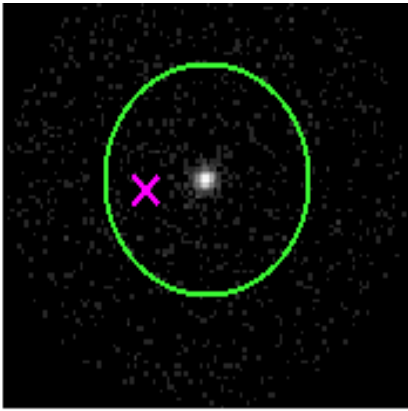




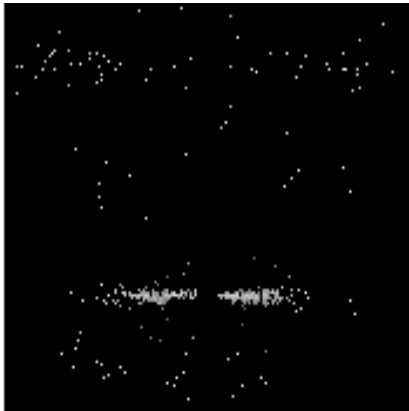
3.2 MEG Arm



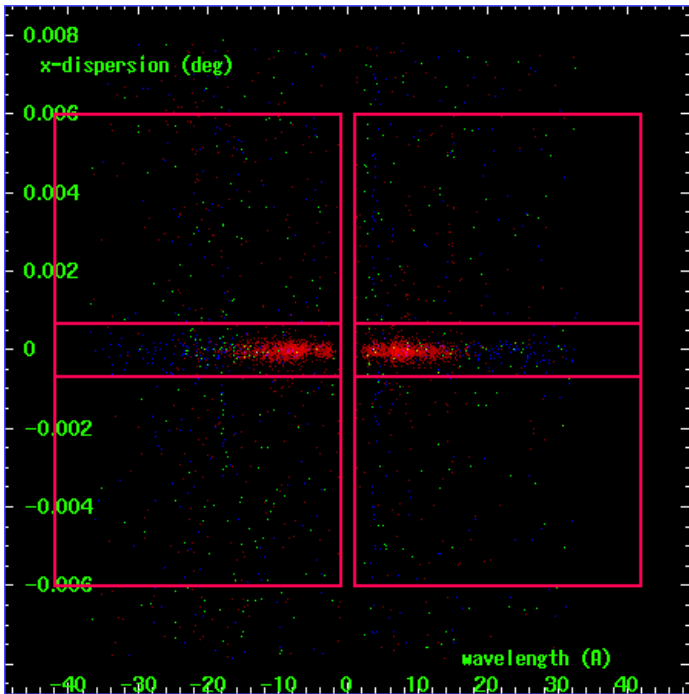
MEG Order Sort 123



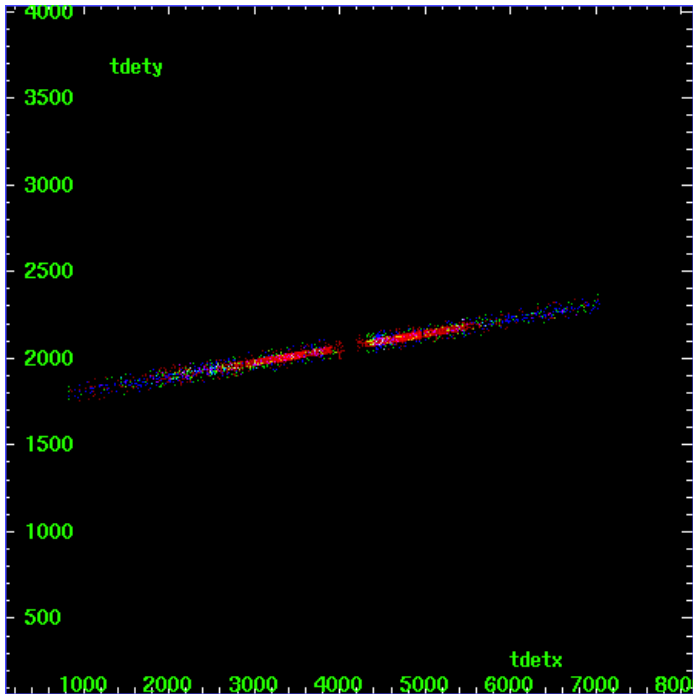
MEG Zero Order



MEG Order Sort ALL

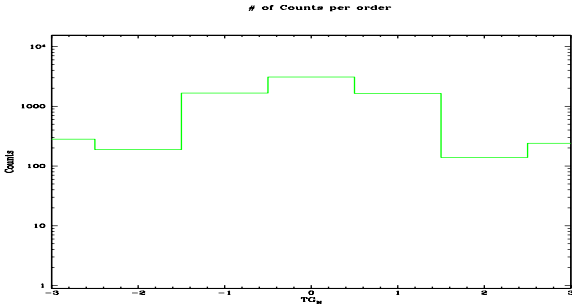


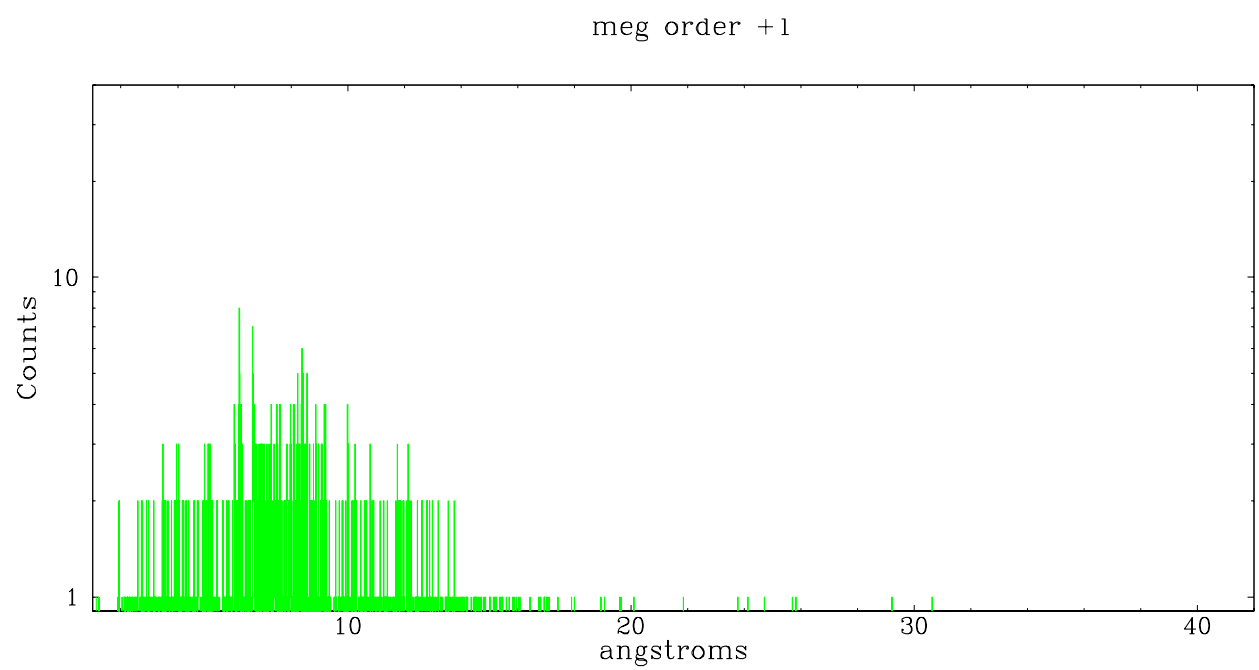
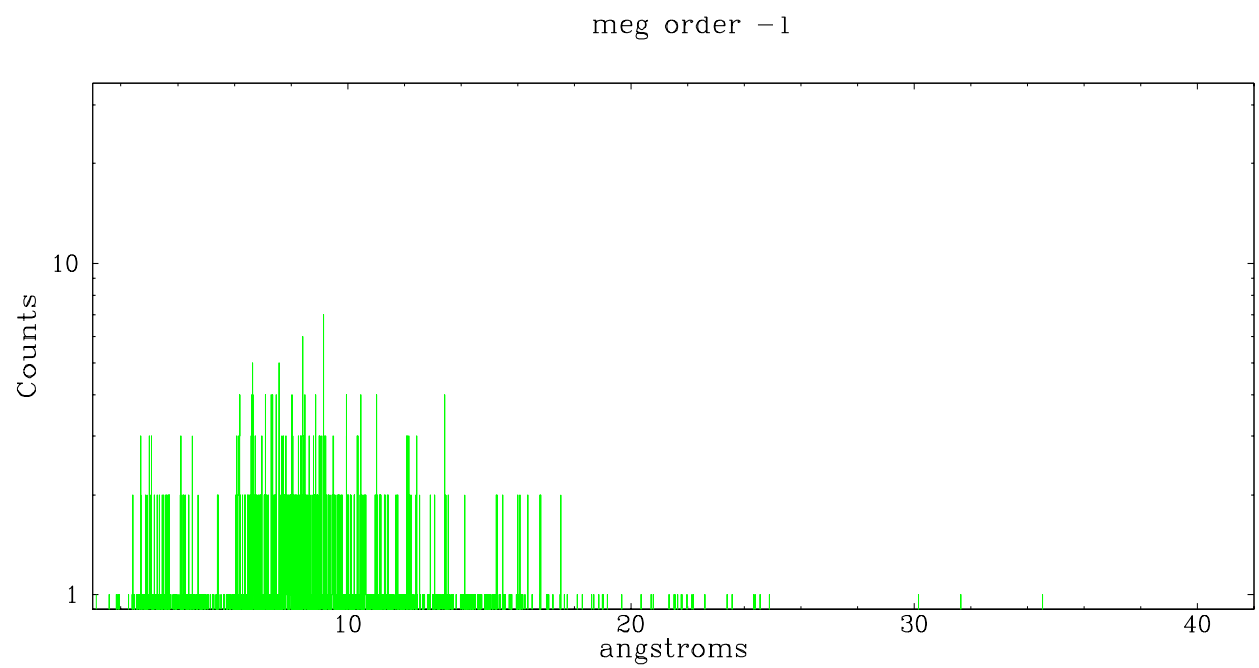
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	281	188	1661	3083	1636	139	241





A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.21233

A.2 Comments